

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	1	("5330650").PN.	US-PGPUB; USPAT	OR	OFF	2008/02/05 06:35
L3	28	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (conditioning SAME (soil OR dirt OR ground OR earth))	US-PGPUB; USPAT	OR	ON	2008/02/05 06:54
L4	28	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (conditioning SAME (soil OR dirt OR earth))	US-PGPUB; USPAT	OR	ON	2008/02/05 06:55
L5	1	("4806345").PN.	US-PGPUB; USPAT	OR	OFF	2008/02/05 06:56
L6	1	("5210222").PN.	US-PGPUB; USPAT	OR	OFF	2008/02/05 06:57
L7	63	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (condition\$4 SAME (soil OR dirt OR earth))	US-PGPUB; USPAT	OR	ON	2008/02/05 07:39
L8	24	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (biotechnological SAME application)	US-PGPUB; USPAT	OR	ON	2008/02/05 07:44
L9	26	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (biotechnologic\$3)	US-PGPUB; USPAT	OR	ON	2008/02/05 07:45

L10	93	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (biolog\$4)	US-PGPUB; USPAT	OR	ON	2008/02/05 07:47
L11	7	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (vaccine)	US-PGPUB; USPAT	OR	ON	2008/02/05 07:54
L13	1	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (soil SAME remediat \$4 )	US-PGPUB; USPAT	OR	ON	2008/02/05 07:57
L14	270	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (soil OR earth OR dirt)	US-PGPUB; USPAT	OR	ON	2008/02/05 07:57
L15	32	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (soil OR earth OR dirt) AND (agricultural OR agriculture)	US-PGPUB; USPAT	OR	ON	2008/02/05 07:58
L16	37	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (soil OR earth OR dirt) AND (agricultural OR agriculture OR farm\$4)	US-PGPUB; USPAT	OR	ON	2008/02/05 07:58
L17	91	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (mineral SAME process\$4)	US-PGPUB; USPAT	OR	ON	2008/02/05 08:18

L18	91	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND ((mineral SAME process\$4) OR (mineral SAME beneficiation))	US-PGPUB; USPAT	OR	ON	2008/02/05 08:22
L19	44	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND ((water SAME clarification))	US-PGPUB; USPAT	OR	ON	2008/02/05 08:41
L20	50	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND ((water SAME purification))	US-PGPUB; USPAT	OR	ON	2008/02/05 08:45
L21	54	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (water SAME (clarified OR clarification OR clarifying ))	US-PGPUB; USPAT	OR	ON	2008/02/05 08:50
L27	57	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (soil SAME condition \$4 )	US-PGPUB; USPAT	OR	ON	2008/02/05 10:29
L49	2337	((524/800) or (524/521) or (524/555) or (524/815)).OCLS.	US-PGPUB; USPAT	OR	OFF	2008/02/05 16:47
L50	1944	((210/723) or (210/724) or (210/734) or (210/735)).OCLS.	US-PGPUB; USPAT	OR	OFF	2008/02/05 16:48
S1	1	("20060116470").PN.	US-PGPUB; USPAT	OR	OFF	2008/02/01 13:54
S2	29	"5330650"	US-PGPUB; USPAT	OR	ON	2008/02/01 14:01

S3	2	((("5330650") or ("4806345")).PN.	US-PGPUB; USPAT	OR	OFF	2008/02/01 14:02
S4	15543	(methyl SAME vinyl\$2imidazolium SAME chloride) OR (methyl SAME vinyl\$2imidazolium SAME methosulfate) OR (dimethyl\$2di\$2allyl\$2ammonium SAME chloride) OR (dimethyl\$2amino\$2ethyl SAME methacrylate) OR (dimethyl\$2amino SAME propyl SAME methacrylamide SAME quatern\$5 SAME (methyl OR chloride OR (dimethyl SAME sulfate) OR (diethyl SAME sulfate))) OR (tri\$2methyl\$2amino SAME propyl SAME methacrylamide SAME chloride) OR (di\$2methyl\$2di\$2allyl\$2ammonium SAME chloride)	US-PGPUB; USPAT	OR	ON	2008/02/01 14:25
S5	3604	(dispersant OR dispersion OR suspension) AND (hydroliz\$4 vinyl\$2formamide SAME acrylate) AND (amphoteric OR (acid AND base))	US-PGPUB; USPAT	OR	ON	2008/02/01 14:46
S6	170	(dispersant OR dispersion OR suspension) AND (di\$2methyl\$2amino\$2ethyl\$2methacrylamide SAME acrylate) AND (amphoteric OR (acid AND base))	US-PGPUB; USPAT	OR	ON	2008/02/01 14:47
S7	461	(dispersant OR dispersion OR suspension) AND (hydroliz\$4 vinyl\$2formamide SAME acrylate) AND (amphoteric)	US-PGPUB; USPAT	OR	ON	2008/02/01 14:47
S8	228	(dispersant OR dispersion OR suspension) AND (hydroliz\$4 vinyl\$2formamide SAME acrylate) AND (amphoteric) AND (water SAME soluble SAME monomer)	US-PGPUB; USPAT	OR	ON	2008/02/01 14:48
S9	802	(dispersant OR dispersion OR suspension) AND (vinyl\$2formamide SAME acrylate) AND (amphoteric Or (acid AND base))	US-PGPUB; USPAT	OR	ON	2008/02/01 14:51
S10	518	(dispersant OR dispersion OR suspension) AND (vinyl\$2formamide SAME acrylate) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer)	US-PGPUB; USPAT	OR	ON	2008/02/01 14:51
S11	268	(dispersant OR dispersion OR suspension) AND (vinyl\$2formamide SAME acrylate) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer)	US-PGPUB; USPAT	OR	ON	2008/02/01 14:52

S12	147	(dispersant OR dispersion OR suspension) AND (vinyl\$2formamide SAME acrylate) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (hydrolyz\$4)	US-PGPUB; USPAT	OR	ON	2008/02/01 14:52
S13	147	(dispersant OR dispersion OR suspension) AND (vinyl\$2formamide SAME acrylate) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (hydrolyz\$4) AND (hydroliz\$4 vinyl\$2formamide SAME acrylate)	US-PGPUB; USPAT	OR	ON	2008/02/01 15:05
S14	8	(dispersant OR dispersion OR suspension) AND (vinyl\$2formamide SAME acrylate) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (hydrolyz\$4) AND (di \$2methyl\$2amino\$2ethyl \$2methacrylamide SAME acrylate)	US-PGPUB; USPAT	OR	ON	2008/02/01 15:06
S16	887204	(inorganic SAME salt) OR (salt) OR (chloride SAME salt) OR (sulfate SAME salt) OR (phosphate SAME salt) OR (hydrogenphosphate SAME (metal OR ammonia) SAME salt) OR (sodium SAME sulfate) OR (potassium SAME sulfate) OR (ammonium SAME sulfate) OR (magnesium SAME sulfate) OR (aluminium SAME sulfate) OR (sodium SAME chloride) OR (calcium SAME chloride) OR (sodium SAME dihydrogephosphate) OR (diammسيوم SAME hydrogenphosphate) Or (dipotassium SAME hydrogenphosphate) OR (calcium SAME phosphate) OR (sodium SAME citrate) OR (ferric SAME sulfate) OR (thiocyanate SAME salt) OR (perchlorates SAME salt) OR (chlorate SAME salt) OR (nitrate SAME salt) OR (bromide SAME salt) OR (iodide SAME salt) OR (calcium SAME nitrate) OR (sodium SAME nitrate) OR (ammonium SAME nitrate) OR (aluminium SAME nitrate) OR (sodium SAME thiocyanate) OR (sodium SAME iodide)	US-PGPUB; USPAT	OR	ON	2008/02/01 15:23

S17	8	(S14) AND (S16)	US-PGPUB; USPAT	OR	ON	2008/02/01 15:24
S18	10812	(S16) AND (water SAME swellable)	US-PGPUB; USPAT	OR	ON	2008/02/01 15:35
S19	3	(S14) AND (water SAME swellable)	US-PGPUB; USPAT	OR	ON	2008/02/01 15:35
S20	1	(US-20030195135-\$).did.	US-PGPUB	OR	ON	2008/02/01 15:44
S21	1	(S20) AND (water SAME treat\$5)	US-PGPUB	OR	ON	2008/02/01 15:44
S23	1	(S20) AND (paper)	US-PGPUB	OR	ON	2008/02/01 15:48
S24	1	(S20) AND (soil)	US-PGPUB	OR	ON	2008/02/01 15:49
S25	1	(S20) AND (mineral)	US-PGPUB	OR	ON	2008/02/01 15:50
S27	1	("7029502").PN.	US-PGPUB; USPAT	OR	OFF	2008/02/01 16:48
S29	1	("20070157401").PN.	US-PGPUB; USPAT	OR	OFF	2008/02/01 16:54
S30	112071	(vinylactams) OR (vinylpiperidone) OR (vinylpyrrolidone) OR (vinylcaprolactam) OR (vinylacetamide) OR (vinylformamide) OR (methyl SAME vinylacetamide) OR (acrylamide) OR (methacrylamide) OR (dimethylacrylamide) OR (methylolmethacrylamide) OR (vinylloxazolidone) OR (vinyltriazole) OR (hydroxyalkyl SAME meth SAME acrylate) OR (hydroxyethyl SAME meth SAME acrylate) OR (hydroxypropyl SAME meth SAME acrylate) OR (alkylethylene SAME glycol SAME meth SAME acrylate)	US-PGPUB; USPAT	OR	ON	2008/02/04 14:51
S31	15543	(methyl SAME vinyl\$2imidazolium SAME chloride) OR (methyl SAME vinyl\$2imidazolium SAME methosulfate) OR (dimethyl\$2di\$2allyl\$2ammonium SAME chloride) OR (dimethyl\$2amino\$2ethyl SAME methacrylate) OR (dimethyl\$2amino SAME propyl SAME methacrylamide SAME quatern\$5 SAME (methyl OR chloride OR (dimethyl SAME sulfate) OR (diethyl SAME sulfate))) OR (tri\$2methyl\$2amino SAME propyl SAME methacrylamide SAME chloride) OR (di\$2methyl\$2di\$2allyl	US-PGPUB; USPAT	OR	ON	2008/02/04 14:54

		\$2ammonium SAME chloride)				
S32	20	(S30) AND (S31) AND (dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (de\$2water\$4 SAME process)	US-PGPUB; USPAT	OR	ON	2008/02/04 14:54
S34	8	(S30) AND (S31) AND (dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND ( clarif\$5 SAME water)	US-PGPUB; USPAT	OR	ON	2008/02/04 15:02
S35	121	(S30) AND (S31) AND (dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND ( oil SAME produc\$5)	US-PGPUB; USPAT	OR	ON	2008/02/04 15:04
S36	20	(S30) AND (S31) AND (dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND ( condition\$4 SAME soil)	US-PGPUB; USPAT	OR	ON	2008/02/04 15:06
S37	21	(S30) AND (S31) AND (dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND ( process\$4 SAME mineral)	US-PGPUB; USPAT	OR	ON	2008/02/04 15:09
S38	57	(S30) AND (S31) AND (dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND ( (hair OR skin) SAME cosmetic)	US-PGPUB; USPAT	OR	ON	2008/02/04 15:11
S40	3	(S30) AND (S31) AND (dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND ( biotechnological SAME (method OR process) )	US-PGPUB; USPAT	OR	ON	2008/02/04 15:15

S41	1	("5292800").PN.	US-PGPUB; USPAT	OR	OFF	2008/02/04 16:51
S42	67	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (de\$2water\$4 SAME process)	US-PGPUB; USPAT	OR	ON	2008/02/04 17:07
S43	67	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (paper\$2making SAME (process OR method))	US-PGPUB; USPAT	OR	ON	2008/02/04 17:36
S45	10	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (oil SAME field) AND (oil SAME field SAME operation)	US-PGPUB; USPAT	OR	ON	2008/02/04 17:57
S46	82	(dispersant OR dispersion OR suspension) AND (amphoteric Or (acid AND base)) AND (water SAME soluble SAME monomer) AND ((cation OR cationic) SAME monomer) AND (water SAME swellable) AND (oil SAME field)	US-PGPUB; USPAT	OR	ON	2008/02/04 18:10

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